

**ILLINOIS COMMERCE COMMISSION  
STIPULATED AGREEMENT  
CROSSING DATA FORM**

**GENERAL INFORMATION:** See Location Sketch.

<b>RAILROAD</b>	Illinois Central Railroad Company
<b>USDOT#, MILEPOST</b>	293 721H, 90.00-GE ~
<b>STREET, CITY, COUNTY</b>	Wilson Street, Benton, Franklin County
<b>JURISDICTION (RDWY)</b>	City of Benton "
<b>LOCATION</b>	Urban, Residential
<b>STREET SURFACE</b>	2-Lane, 2-Way, 18 Foot Wide, Bituminous

**CROSSING DATA:** See Location Sketch for roadway profile and track centers

<b>TRACK (N-S)</b>	<b>SURFACE TYPE</b>	<b>SURFACE WIDTH</b>	<b>SURFACE CONDITION</b>
Wye	Timber	33 Ft. (±)	Fair*
Main	Timber	33 Ft.	Fair*
Wye	Timber	33 Ft. (±)	Fair

\*Devil Strip is in poor condition.

**ROADWAY DATA:** See Location Sketch

<b>INTERSECTING ROADS:</b>	Depot Street – 77 Feet North
<b>TRAFFIC CONTROL</b>	Stop Sign for Depot Street traffic
<b>ADT &amp; SPEED</b>	600 Vehicles Per Day @ 30 MPH (17% Trucks).
<b>TRAFFIC TYPE</b>	Passenger, Possible School Busses, Possible Hazardous Materials, Possible Emergency Response
<b>ADVANCE WARNING</b>	North Only
<b>PAVEMENT MARKING</b>	None

**RAILROAD DATA:** See Location Sketch

<b>FREIGHT TRAFFIC</b>	2 Per day @ 25 MPH, 2 of Switch Movements, Day & Night
<b>PASSENGER TRAFFIC</b>	None
<b>WARNING DEVICES</b>	Reflective Crossbucks

**NOTES:**

Proposed Improvement: automatic flashing light signals and gates

**VISIBILITY STUDY:** See Location Sketch

<b>Train Speed</b>	25	<b>MPH</b>
<b>Roadway Speed</b>	30	<b>MPH</b>
<b>Required Stopping Sight Distance (SSD)</b>		
<b>Along Roadway</b>	208	<b>FEET</b>
<b>Along Tracks</b>	271	<b>FEET</b>
<b>Required Clearing Sight Distance (CSD)</b> <b>(Along Tracks)</b>	755	<b>FEET</b>

Distances calculated per American Association of State Highway and Transportation Officials (AASHTO), A Policy on Geometric Design of Highways and Streets, 2001, Fourth Edition.

<b>QUADRANT</b>	<b>CSD (FT)</b>	<b>OBSTRUCTION</b>	<b>SSD (FT)</b>	<b>OBSTRUCTION</b>
<b>NE</b>	*	Track Radii	*	Various Structures
<b>NW</b>	*	Track Radii	*	Various Structures
<b>SE</b>	*	Track Radii	*	Various Structures
<b>SW</b>	*	Track Radii	*	Various Structures

\*Note: The installation of automatic flashing light signals and gates eliminates the need to satisfy minimum Sight Distance criteria.

**APPROACH GRADES:** See Location Sketch

<b>DIRECTION: NORTH</b>			<b>DIRECTION: SOUTH</b>		
<b>DISTANCE (FT)</b>	<b>ELEVATION (FT)</b>	<b>GRADE (%)</b>	<b>DISTANCE (FT)</b>	<b>ELEVATION (FT)</b>	<b>GRADE (%)</b>
0	100.0	---	7.7	99.9	-1.3
25	99.4	-2.0	44	99.8	-0.5
50	98.1	-2.0	69	100.6	3.2
100	97.5	-1.2	94	101.0	1.6
			144	100.9	-0.2

Distance measured from northernmost rail.

**COMMENTS:**

Project is part of FY 2006 Crossing Safety Improvement Program. Wilson Street is being done in conjunction with South Pope Street.

Local topography prohibits adjustment of approach grades. A variance will need to be granted for the approaches.

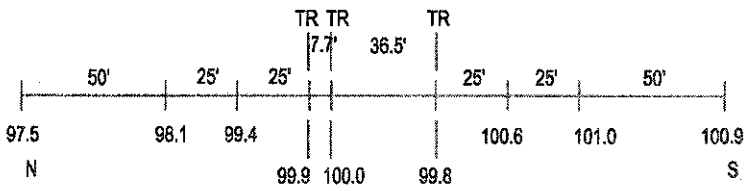
**PROPOSED COST DIVISION:**

GCPF ----- 85%  
City ----- 10%  
Railroad ----- 5% + maintenance and operation

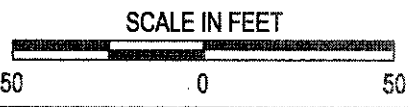
See Page 3 for a Location Sketch (Aerial Photo) of the crossing.



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**ROAD PROFILE**



Crossing #:	293721H
Location:	Franklin Co., City of Benton (In)
Lat/Long:	37°59'35" / 88°54'49"
Railroad:	Illinois Central Railroad Company
Street:	Wilson Street
Railroad Milepost:	90.0-GE
Crossing Protection:	Reflective Crossbucks

# ILLINOIS CENTRAL RAILROAD COMPANY

A WHOLLY OWNED SUBSIDIARY OF

CANADIAN NATIONAL RAILWAY COMPANY

## HIGHWAY/RAIL GRADE CROSSING SIGNAL ESTIMATE

Roadway Name: Pope Street  
Nearest Station: Benton, IL  
Railroad Division: Central  
Railroad Subdivision: Eldorado  
Railroad Milepost: GE 89.48  
DOT Crossing No.: 293 717T  
Valuation Section: IL-2

Date: March 28, 2006

Est 1056-601

Prepared by: WCR

Description of Work: Signal work to install FLS & Gates.

### MATERIAL:

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Landfill	1	LOT	\$1,000.00	\$ 1,000.00
Insulated Joint	4	EACH	\$1,200.00	\$ 4,800.00
Misc. Signal Material	1	LOT	\$500.00	\$ 500.00
<u>CROSSING MATERIALS PACKAGE</u>				
GCP4000, 8120-80465-00280	1	EACH	\$23,115.00	\$ 23,115.00
Narrow Band Shunt, 62775-1543	2	EACH	\$533.00	\$ 1,066.00
Rectifier, NRS 15110, 20A	1	EACH	\$446.00	\$ 446.00
Rectifier, NRS 18120, 40A	1	EACH	\$645.00	\$ 645.00
Intelligent Current Sensor, 80271	2	EACH	\$470.00	\$ 940.00
FLX-4000 & Gate Assembly, 2-Way	2	EACH	\$7,160.00	\$ 14,320.00
Arm, E-Z Gate, 16-24'	2	EACH	\$569.00	\$ 1,138.00
Gatekeeper, SK-1000	2	EACH	\$1,975.00	\$ 3,950.00
Bell, Electronic	1	EACH	\$235.00	\$ 235.00
Battery, Ni-Cad, 250 AH	20	EACH	\$250.00	\$ 5,000.00
Foundation, S-2	2	EACH	\$410.00	\$ 820.00
Enclosure, Shunt	2	EACH	\$588.00	\$ 1,176.00
AC/DC Track Circuit	1	EACH	\$550.00	\$ 550.00
Pre-Wired Aluminum Bungalow, 6X6'	1	EACH	\$13,450.00	\$ 13,450.00
Wire, 2c/6, T10456	600	FEET	\$0.59	\$ 354.00
Cable, 3c/6 TECK, T10458	2500	FEET	\$2.12	\$ 5,300.00
Cable, 7c/6,9c/14, T12481	300	FEET	\$3.70	\$ 1,110.00
SUBTOTAL MATERIAL				\$ 79,915.00

Pope Street

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Benton, IL

Est 1056-601

LABOR:

SIGNAL LABOR

<u>Item</u>	<u>Gang Days</u>	<u>Cost/Day</u>	<u>Cost</u>
5-man Gang	12	1200.00	\$ 14,400.00
			=====
SUBTOTAL SIGNAL LABOR			\$ 14,400.00

MISCELLANEOUS LABOR

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Preliminary Engineering	1	L.S.	\$2,500.00	\$ 2,500.00
Construction Engineering	1	L.S.	\$275.00	\$ 275.00
Accounting	1	L.S.	\$300.00	\$ 300.00
				=====
SUBTOTAL MISCELLANEOUS LABOR				\$ 3,075.00

				=====
TOTAL LABOR				\$ 17,475.00

OTHER

<u>Item</u>	<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Cost</u>
Per Diem/Business Expense	1	L.S.	\$3,000.00	\$ 3,000.00
Contractor/Rented Equipment	1	L.S.	\$2,400.00	\$ 2,400.00
Power Tap	1	L.S.	\$1,500.00	\$ 1,500.00
Contract-Crossing System Wiring	1	L.S.	\$6,000.00	\$ 6,000.00
Freight on Crossing Package	1	L.S.	\$3,300.00	\$ 3,300.00
Contract Engineering	1	L.S.	\$6,000.00	\$ 6,000.00
				=====
TOTAL OTHER				\$ 22,200.00

				=====
TOTAL DIRECT COSTS				\$ 119,590.00

Pope Street

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FAPG ADDITIVES

Material	\$ 79,915.00	
Material Additive ( 4.20%)		\$ 3,356.43
Signal Labor	\$ 14,400.00	
Signal Labor Additive ( 89.34%)		\$ 12,864.96
Engineering Labor	\$ 2,775.00	
Engineering Labor Additive ( 83.29%)		\$ 2,311.30
Accounting Labor	\$ 300.00	
Accounting Labor Additive ( 74.34%)		\$ 223.02
Other	\$ 22,200.00	
	=====	=====
TOTAL DIRECT COSTS	\$ 119,590.00	
TOTAL FAPG ADDITIVES		\$ 18,755.71
		=====
GRAND TOTAL FAPG BASIS		\$ 138,345.71